System Requirement Specification

For

SUPRIME Furniture shop

Version 1.0

Prepared by

A.P.Kushan Thavidu

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# **2.1 SRS Document for KT furniture shop Software**

## **Purpose**

The main objective of this software is to provide excellent service to the customers.  Here, people who come to the establishment can order the products they need very quickly and easily.  Here the organization's data is stored in an orderly, accurate and secure manner and the data is stored so that it can be used later.  Other data and information of the organization can be kept very safe by providing only the data needed by the customers.  It provides excellent support to the software operator.  Also, the security of incoming data is very high.

## **Intended Audience and Intended Use**

Access to SRS is done by testers, developers and project managers.  They will contribute to the project in different ways and therefore they will be able to use the part they have contributed to the project.  Basically developers can have access to everything in the project and project managers and testers have access to the final product.

## **Scope**

A lot of software can be seen in the market.  But with customers and company employees this software can work better than others.  And some more features than other software can be seen here.  Customers can choose the products they want and order them through this software and at the same time they can get the related information.  They have also included business details and contact information.  And with this software, the company's employees can see clear information about the products available in the company.  Also, adding new products, making revisions to existing products, and discarding products can also be done.

## **Overview**

This software can be pointed out as a basic part of the operational process of suprime Furniture Company.  All transactions with customers and businesses are done through this software.  And it is also possible to calculate the salaries of the employees.  This eases the task of the user who uses the software and the task of the administrator who controls the software.  It can be pointed out that the main purpose of this software is to buy goods according to the needs of the customers and to provide them with the information they need and to maintain accurate data about the company's products.

 This software can be used primarily on windows computers and this is a console application.  This is made easy to use by customers and employees of the company.  This software is specially designed to meet the needs of users and administrators.  Basically, this has been prepared for the customer to view the information reserved for him and to order the goods.  After that all the functions of the software are done by the administrator.  Many features of this software have been added for him.  For example, all the details related to the goods can be obtained through this and it can be pointed out things like changing them and removing them.

 The "help" option can be pointed out as the most special feature here.  Thus the customer and administrator can get a good knowledge about the software.

## **Product perspective**

This program can be used not only for suprime Furniture Company but also for other furniture company or any other type of company.  Customers can visit the company and get information about all the products available in the company and can buy the products very quickly.  Save customers time by using this software

 Can be.  And since this software is easy to use, customers can get what they want for sure.  A developer can add new features to it and thus work efficiently.  For example, all the details of the goods can be changed as per his requirement.

## **Product functions**

This program is used by the customer to know all the details about the products he wants.  The customer can get the information he needs and access the incoming information quickly.  Therefore, the tasks of the customer can be done very efficiently and very quickly.

## **User Characteristics**

By this, the supervisor of the business can analyze and manage the information of the business and the behavior of the people associated with the business.  Customers who use the software can report errors in the business and errors in the software to an administrator.  Also, an administrator can repair customer needs, organization errors, and software errors.

## **Constraints**

This software may not work in some cases due to bugs in computers.  For example, computer operating system problems, license expiration, computer not working for a long time, hardware component problems, virus processing and etc.  Also, data theft is done by people who enter the computer without permission.  Solutions can include updating the operating system, updating the license, replacing new hardware components, and installing anti-virus software.  And you can use passwords to protect your data.

## **Assumptions and dependencies**

By using this software, it is possible to ensure that the customers of the business are provided with excellent service.  This includes all the details required by the customer to fulfill his needs Because of this, they can do their work very quickly and accurately.  Knowing the customer's opinion is very helpful in business development and software development.

## **Requirements**

There are many functional and non-functional requirements identified in the software of suprime furniture.  The requirements of the customer and the administrator are shown below.  Information about the interface, security, functionality and maintenance is given below.

## **Functional Requirements**

This has presented the overall functional requirements of the business organization and has indicated the standard specifications required for the complete software.  According to the person using the system and according to his tasks, restrictions are imposed on it.

|  |
| --- |
| **Admin Requirements** |
| Will be able to login to the system using the provided admin username and password. |
| Will be possible to add all the details of the goods. |
| Will be possible to check all the details of the goods. |
| All product details will be editable. |
| Will be possible to delete all the details of the goods. |
| Will be possible to logout from the system. |
| Will be possible to log out of the system. |

|  |
| --- |
| **User Requirements** |
| Will be able to login to the system using the provided admin username and password. |
| Will be able to see all the details about the business. |
| Will be able to see all the details on how to contact the business. |
| Will be able to see all the details of the goods. |
| Will be available for purchase. |
| A receipt will be available for the goods. |
| Will be possible to logout from the system. |
| Will be possible to log out of the system. |

## **Non-functional requirements**

A non-functional requirement (NFR) is a requirement that includes parameters that may be used to evaluate process processes, rather than behaviors. These also include particular terms that define particular acts or functions.

## **Usability**

All users of the system should be able to use it without any hassle.  It is so simple and easy that everyone can use it.  It should be friendly to the customer and the user.  All tasks should be able to be done using this.  The system should run very smoothly.

## **Reliability**

This system should be very simple and easy.  Also, any work should be done quickly and accurately.  The system must notify its administrator of all the details and all the details must be correct.

## **Performance**

In order to successfully operate the system, it is necessary to respond quickly and quickly to the input given.  Apart from the time taken for logins to the system, other functions should be done very efficiently.  And all the data should be stored properly.

## **Supportability**

The software is made so that it can be run even on a computer with very few features.  This software is console based so it does not hinder its performance.  And the data stored in the computer can be backed up and use it in another machine just by replacing the database files.

## **Maintainability**

The software can be updated and changed according to the needs of the customer and the company.

## **Availability**

This system can be used 24 hours a day and can be used at any time the organization works in a day.  This can be used for lifetime.

## **Security**

Each person has unique login details to enter the system.  It is very secure as each person has one login details.  The login details of the user allow him to do the work he wants in the way he wants can be.  Customers can also use their respective login details to complete their transactions.

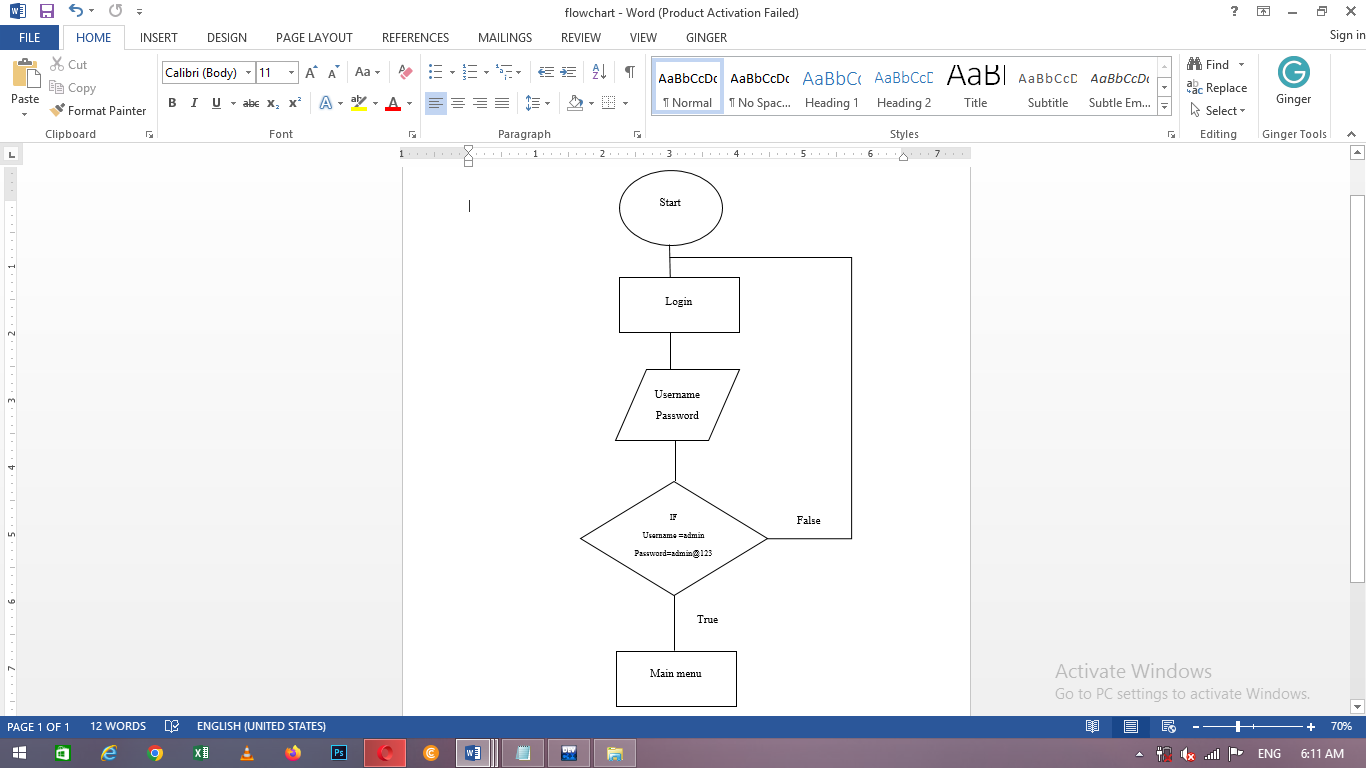
## **Legal**

Suprime Furniture is a private company.  It is registered with the government under the private sector.

Suprime Furniture (pvt) Ltd

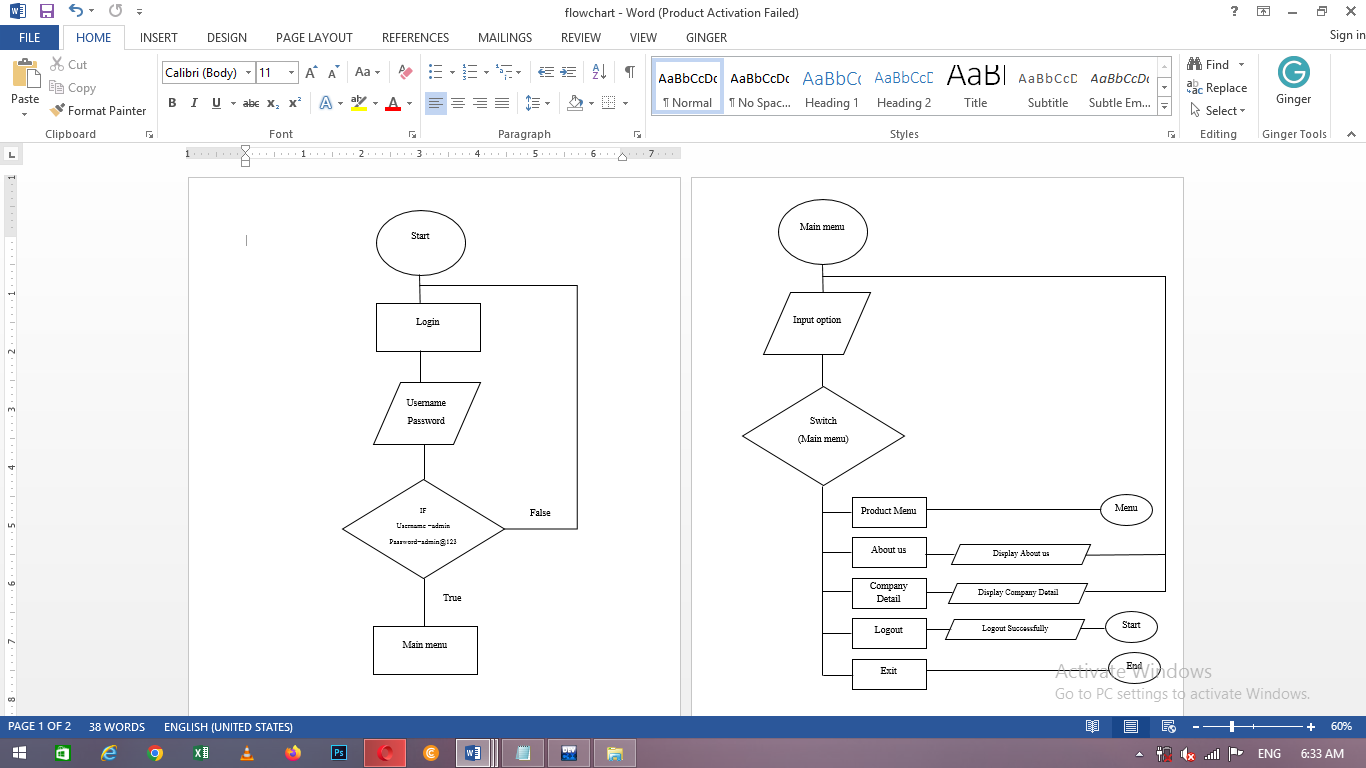
## **2.2 Flow Chart**

### **2.2.1 Login flow chart**



**Figure 10 - Login flowchart**

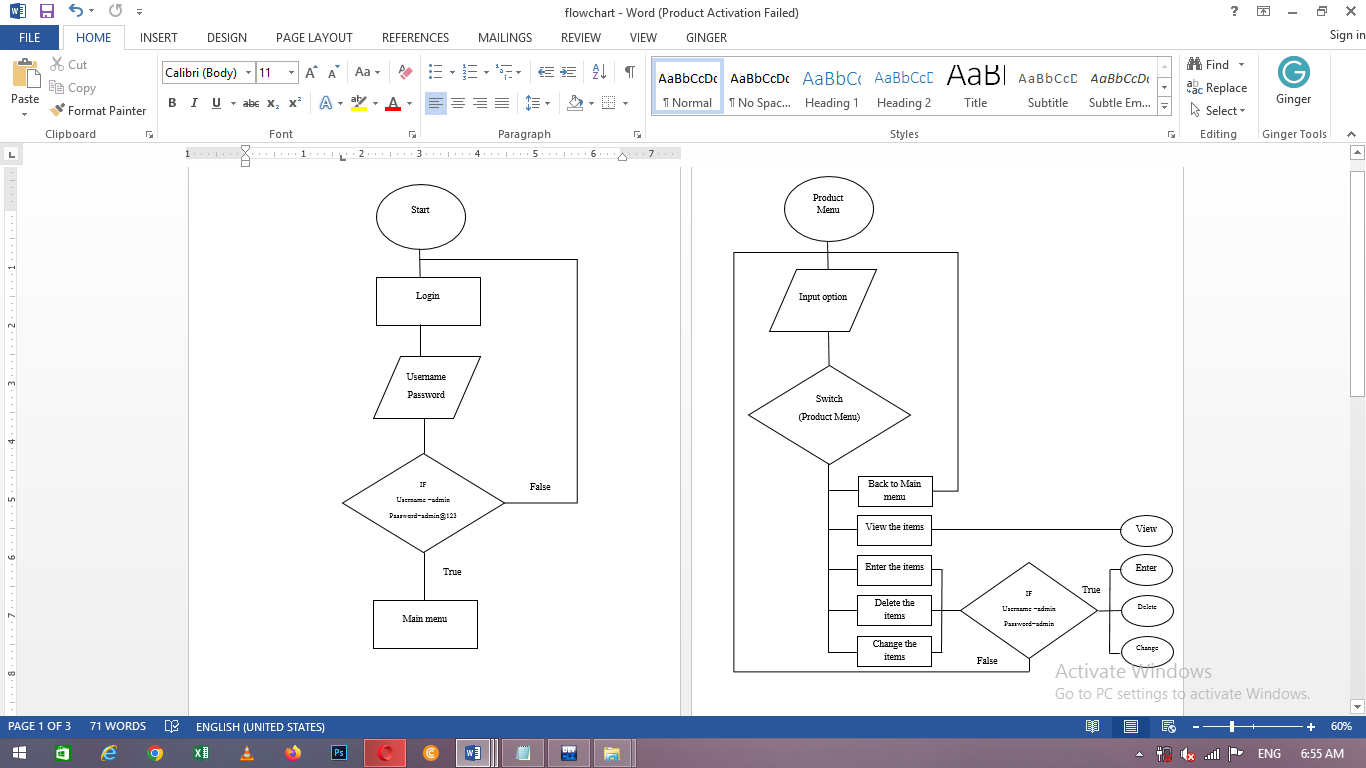
### **2.2.2 Main menu flow chart**



**Figure 11 - Main menu flow chart**

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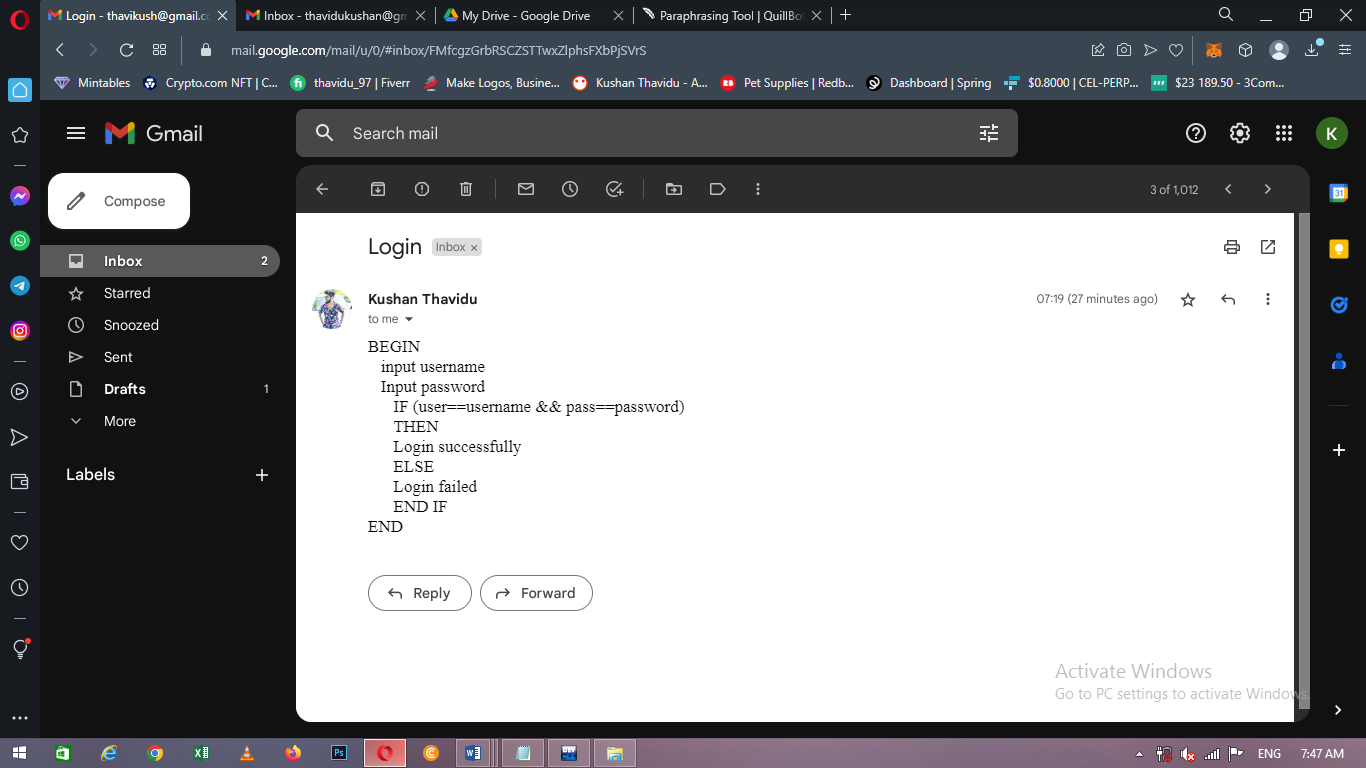
### **2.2.3 Product Menu flow chart**



**Figure 12 - Product menu flow chart**

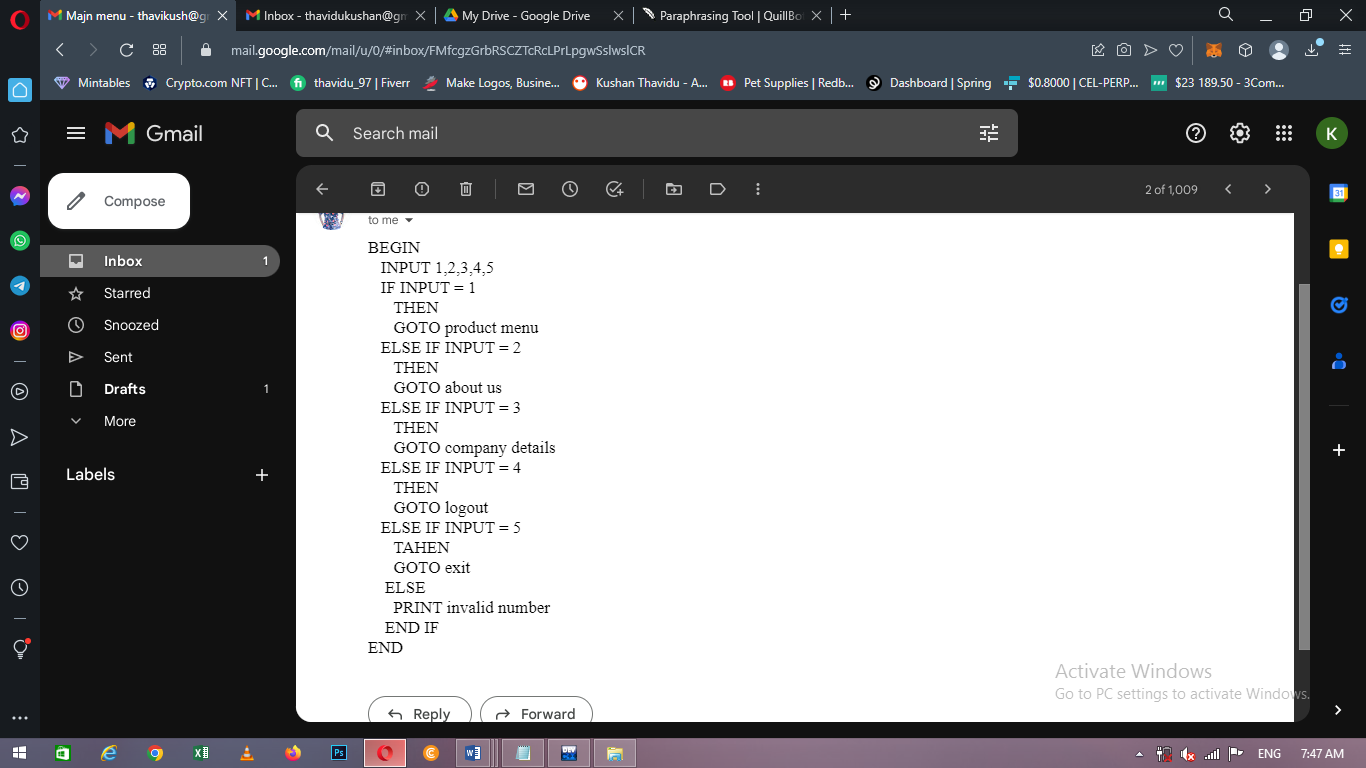
## **2.3 Pseudocode**

**2.3.1 Login Pseudocode**



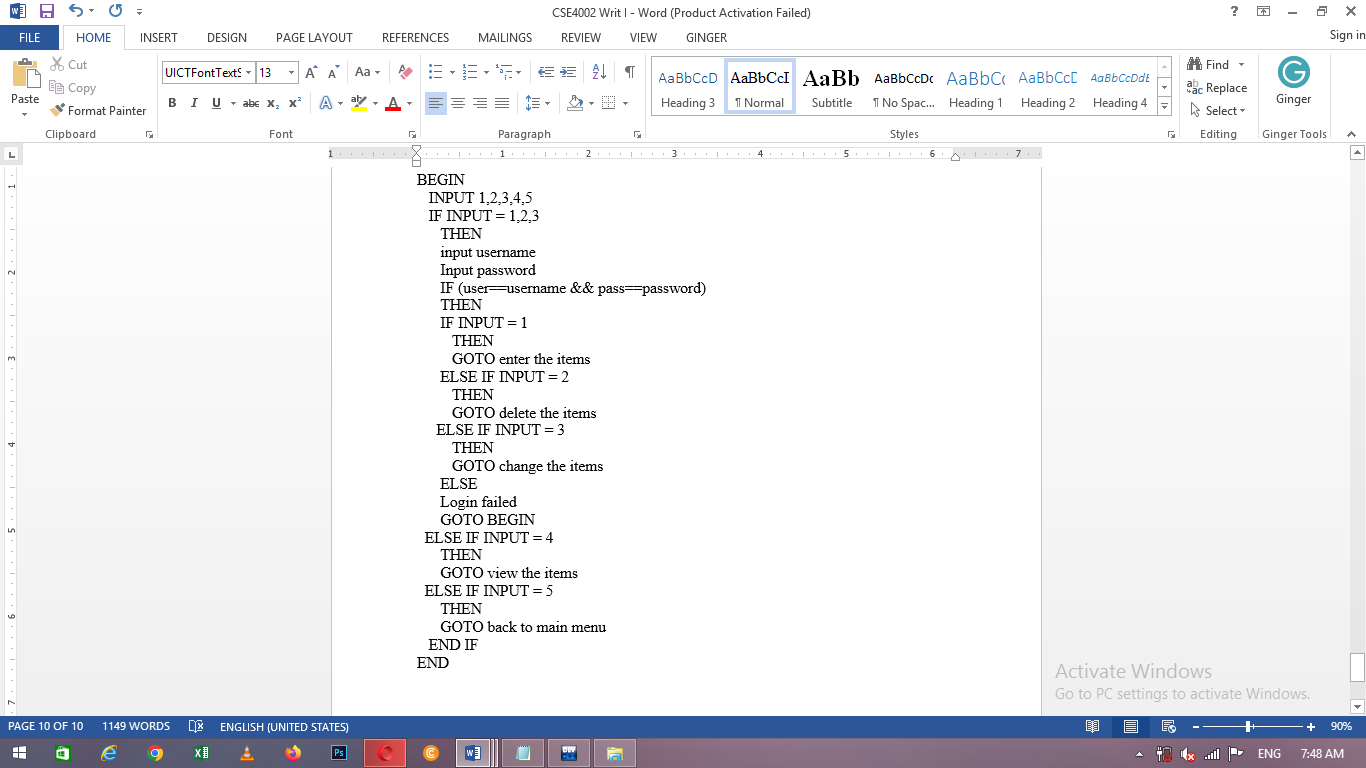
**Figure 13 - Login pseudocode**

**2.3.2 Main menu Pseudocode**



**Figure 14 - Main menu pseudocode**

**2.3.3 Product menu Pseudocode**

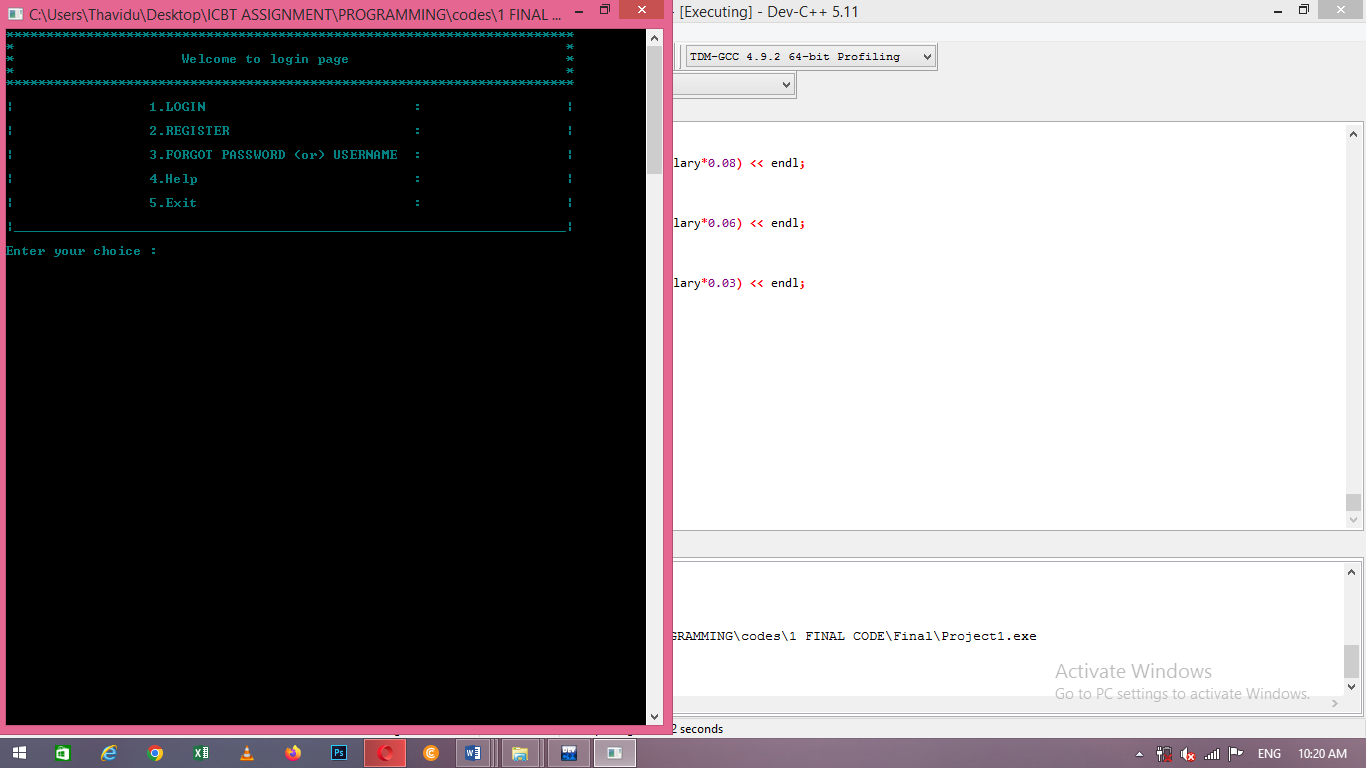


**Figure 15 - Product menu pseudocode**

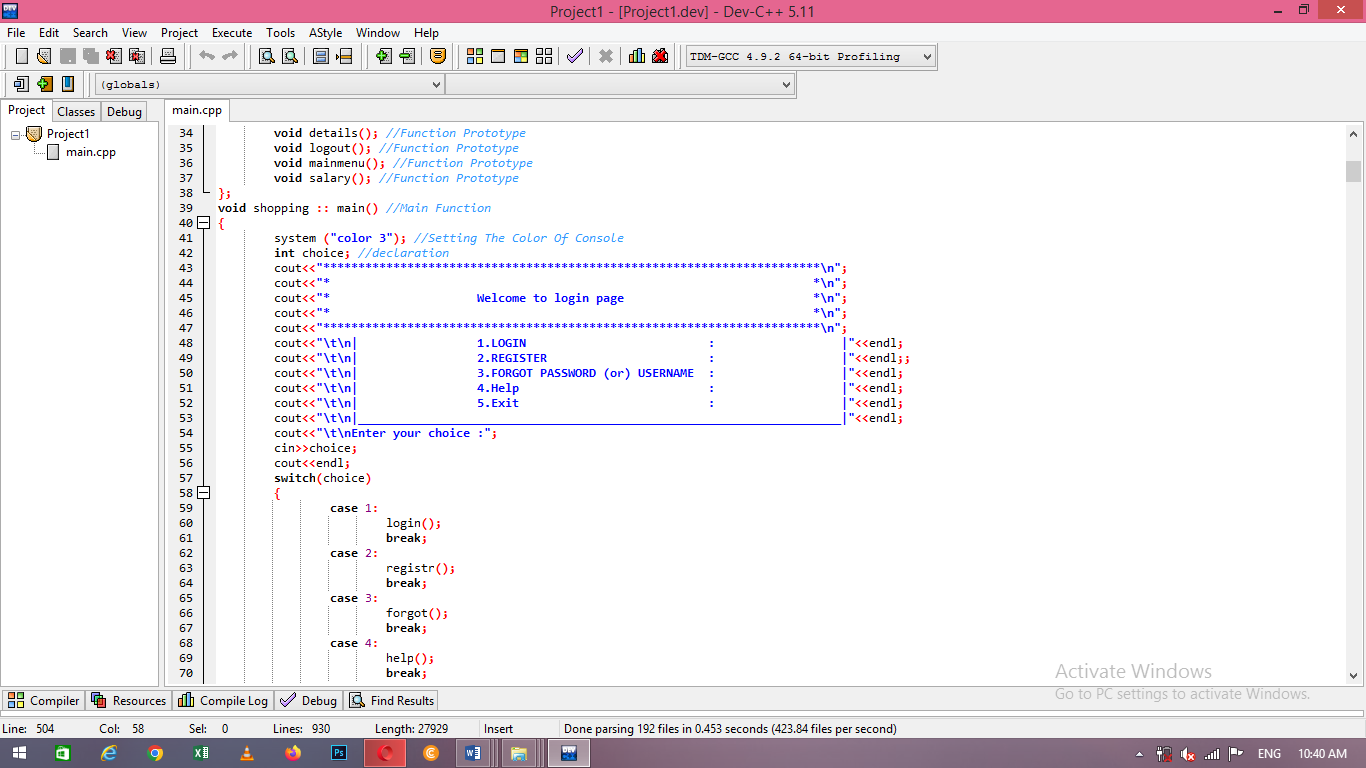
# **System Implementation.**

**Welcome Interface of the Tour Mate Application**

This is the welcome screen of the software and all parts of the software are referred to using the function on this screen

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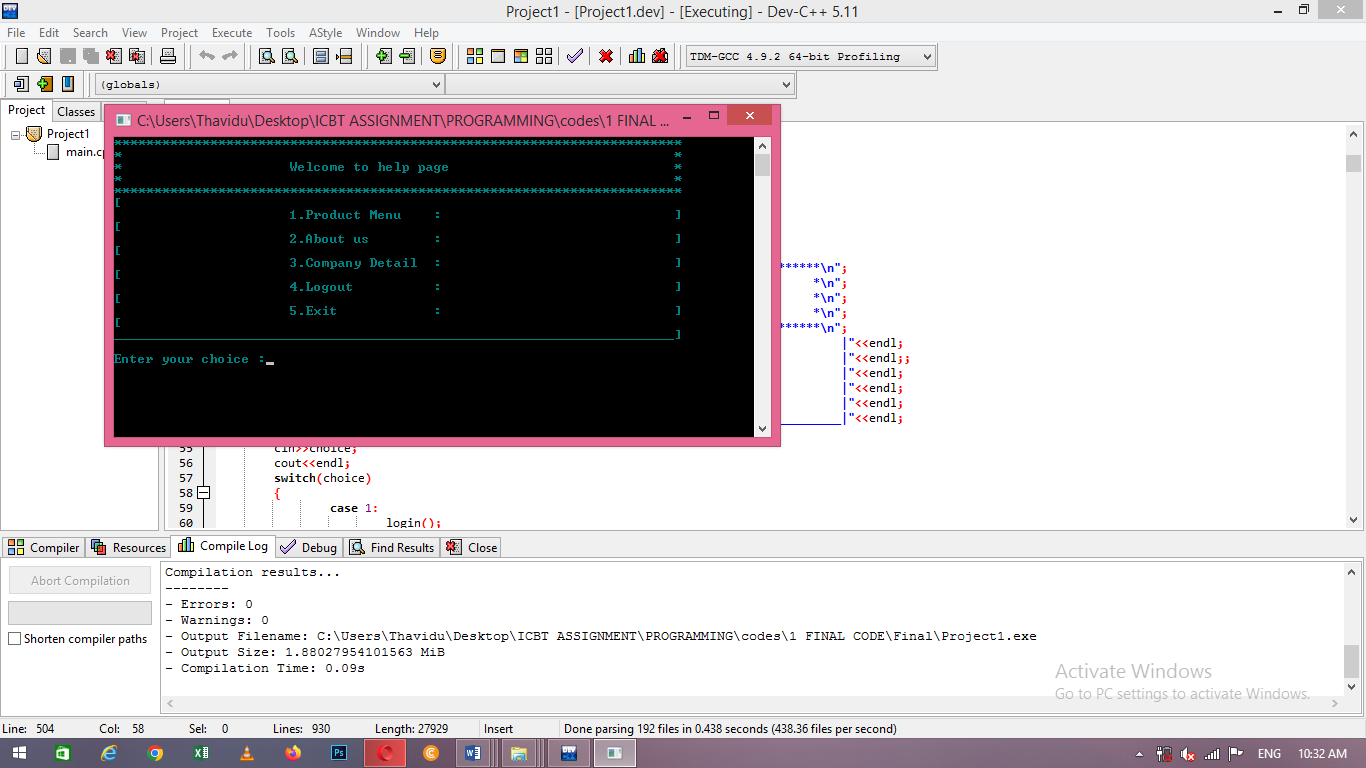
**Figure 16 - Interface of software**

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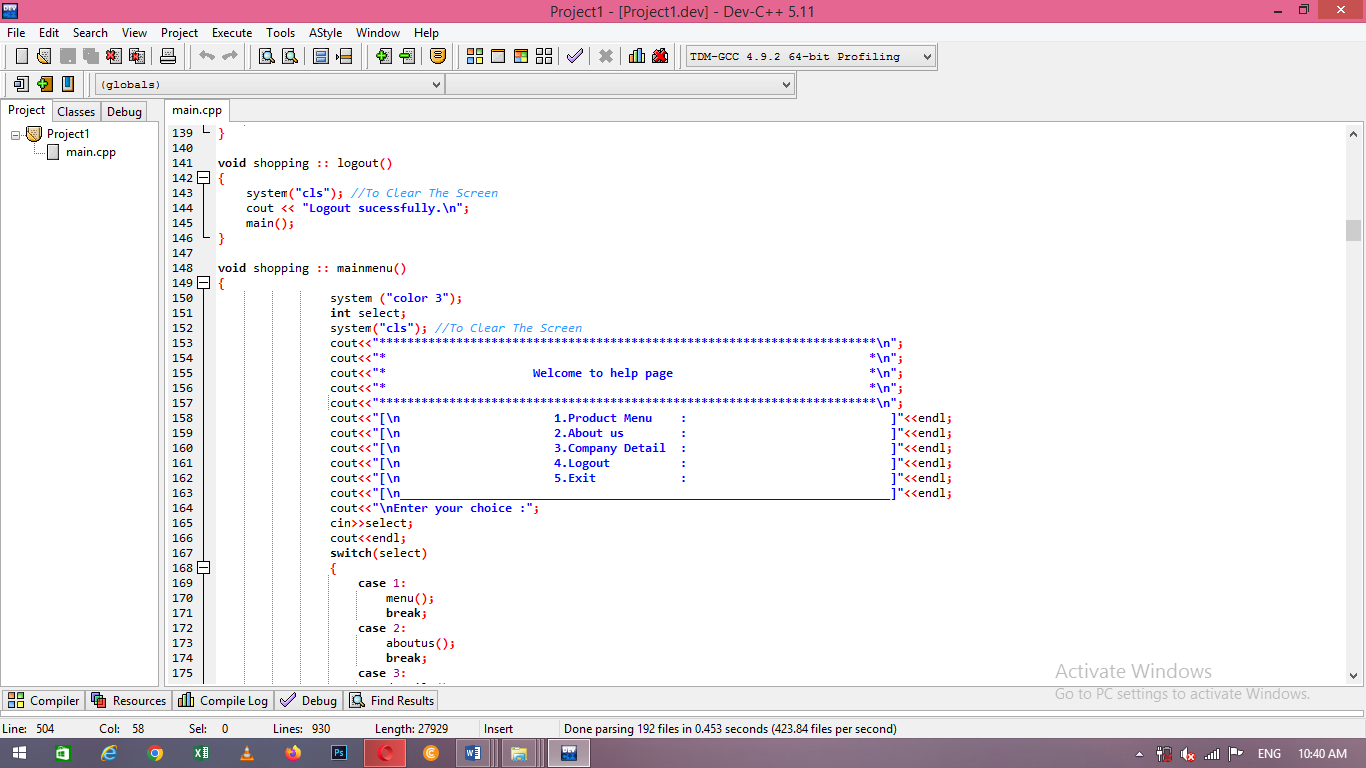
**Figure 17 - Code of Interface**

**Admin & User Login Interface**

This interface is used to select the functions required by the admin and users.

****

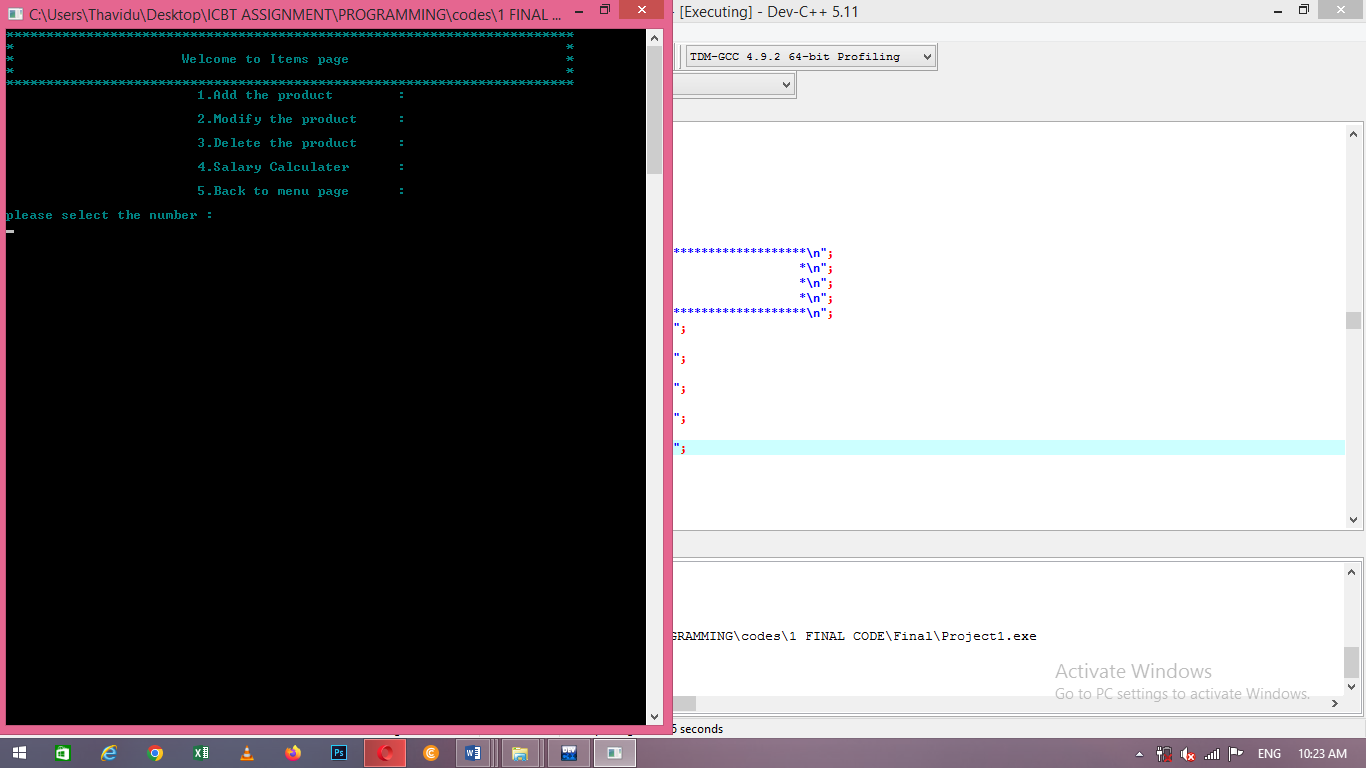
**Figure 18 - Admin & User Login Interface**

****

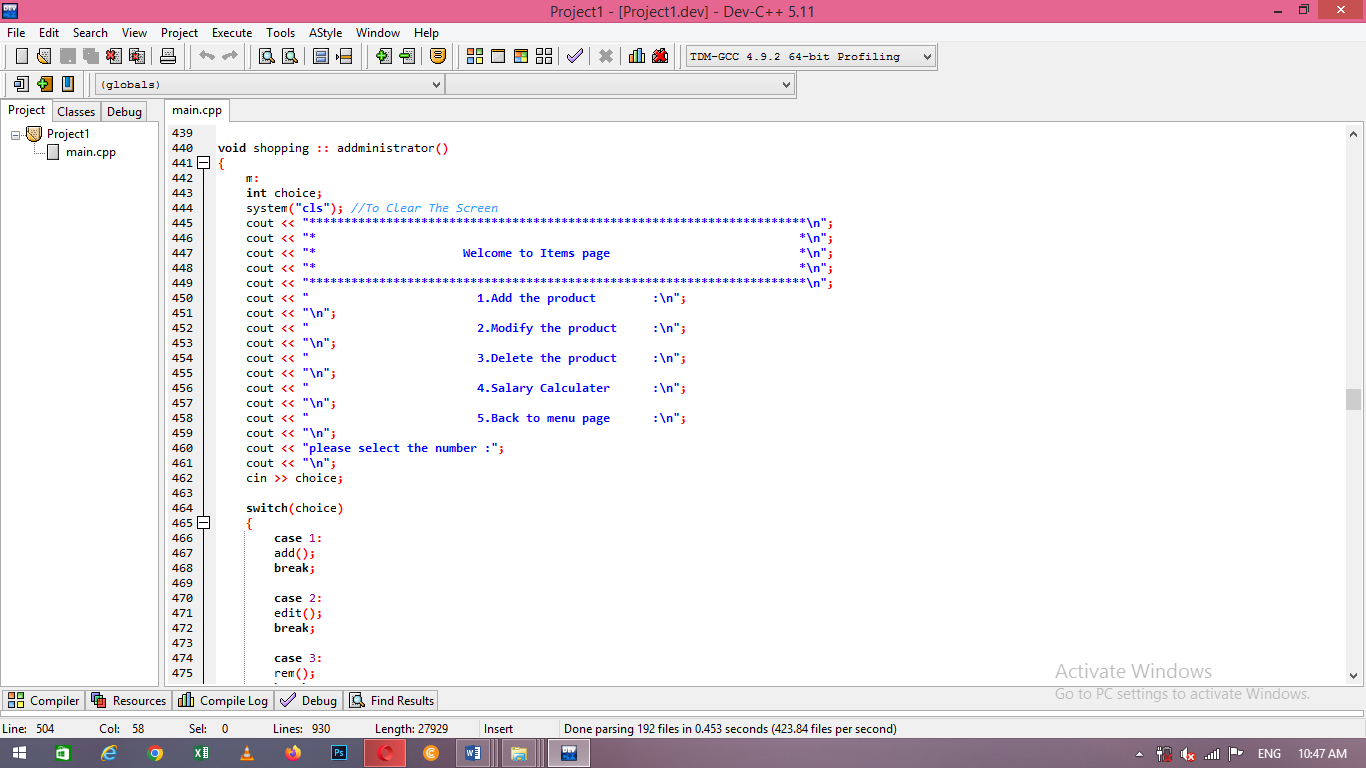
**Figure 19 - Code of Admin & User Login Interface**

**Admin Panel Main Menu**

This menu includes only functions related to admin.  That function and information cannot be obtained by anyone else.

****

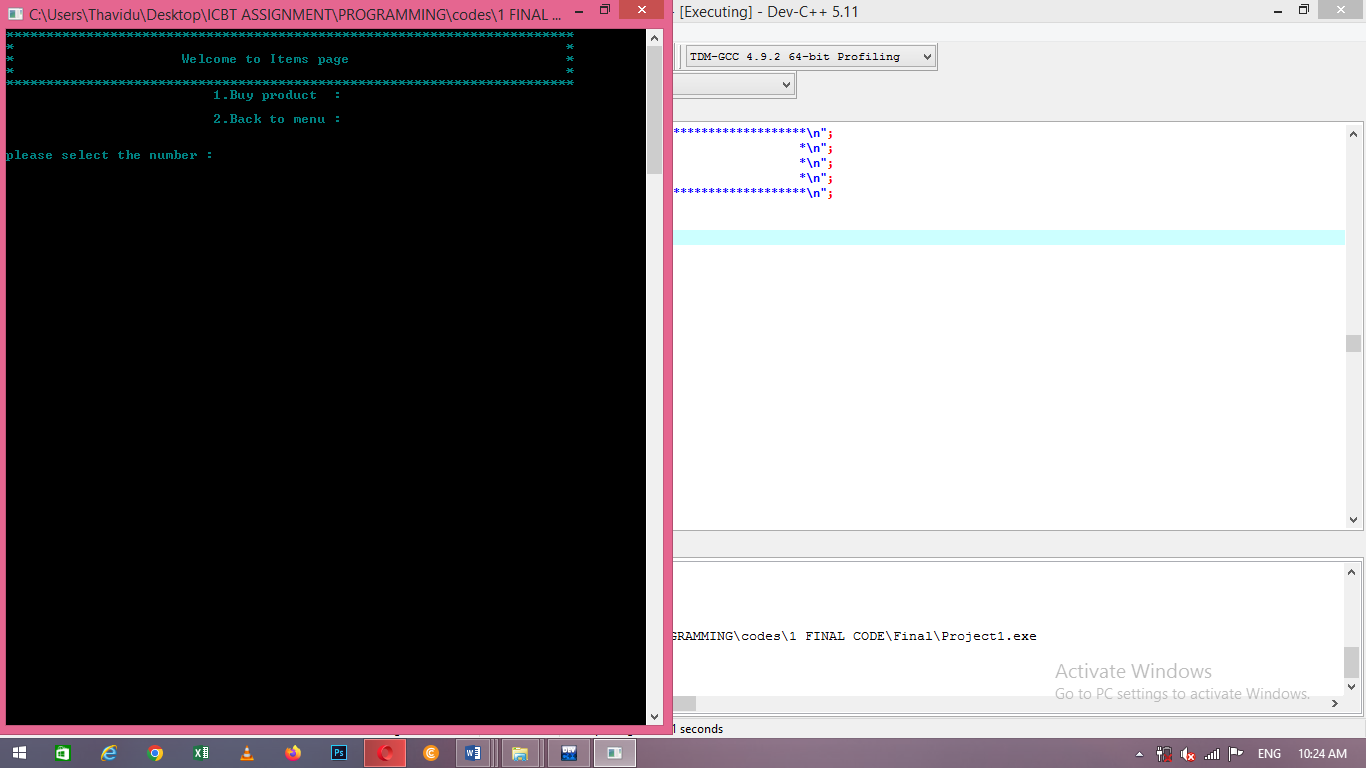
**Figure 20 - Admin Panel Main Menu**

****

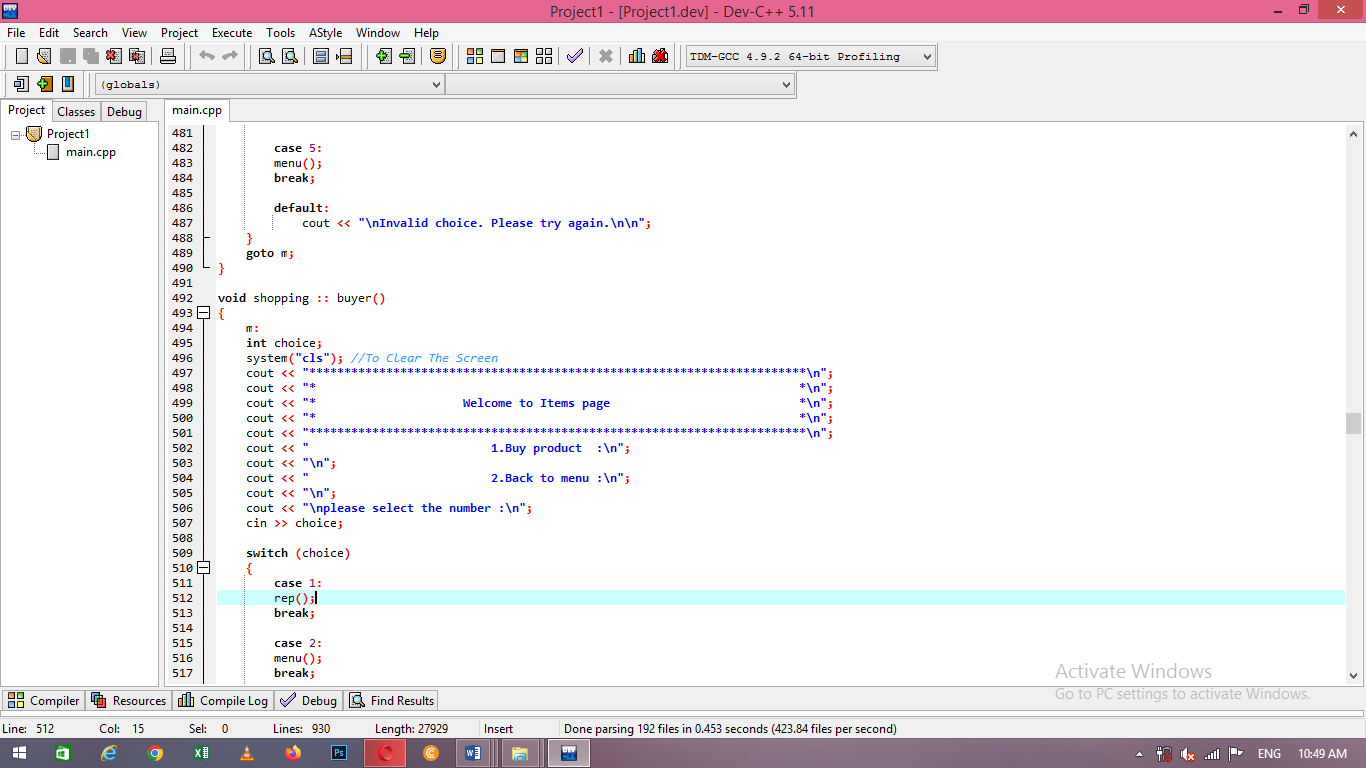
**Figure 21 - code of Admin Panel Main Menu**

**User Panel Main Menu**

This menu is reserved for single users only.  Through this, users can order and buy the products they need.

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**Figure 22 - User Panel Main Menu**

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**Figure 23 - User Panel Main Menu**

Test plan

For

SUPRIME Furniture shop

Prepared by

A.P.Kushan Thavidu

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## **System Testing and Documentation**

Software testing is the process of software evaluation that is used to identify differences between the input given to the software and the expected output.  These tests confirm the quality of the product.  And testing should be done during the development process.  Validation is the process of ensuring that the product meets the needs and wants of the customers and is manufactured in accordance with them.

## **Test Plan**

A test plan is simply a document that defines the scope and activities of software testing.

## **Introduction**

Private sector Company Supriem Furniture needs to develop an application to handle their key business activities. For that, I used the C++ programming language to construct a flawlessly effective product with user-friendly interfaces, suitable messages, outputs, and a menu-driven application. The admin should have access to the database, where they should be able to view, amend, and remove any client information that has been recorded. The user need to be able to choose from a variety of options. They can then fulfill their desires. Both the user and the admin can access the software's help feature

## **Objectives**

The reports regarding the products in the firm should be easy for users to read. To read reports about the products, add new reports about the items, and exit the admin panel, the admin should be able to input their login information and log in. We will create the application in accordance with the SRS document and submit it to the support system.

## **Tasks**

We must create software that is appropriate for the users' level of knowledge since consumers are the ones who use it most frequently. When the project is finished, we should provide the software to the owner's business for testing, comments, and complaints.

## **Scope**

We test the program to make sure there are no flaws or issues for the customers, to learn about software dependability, to make sure the intended user is using the product

## **Tactics**

Supriem furniture application can be tested according to functional and non-functional methods.

|  |  |
| --- | --- |
| **Functional** | **Non-Functional** |
| Unit Testing | Performance Testing |
| Integration Testing | Security Testing |
| System Testing | Usability Testing |
| Acceptance Testing | Comparability Testing |

## **Functions that testing**

Login

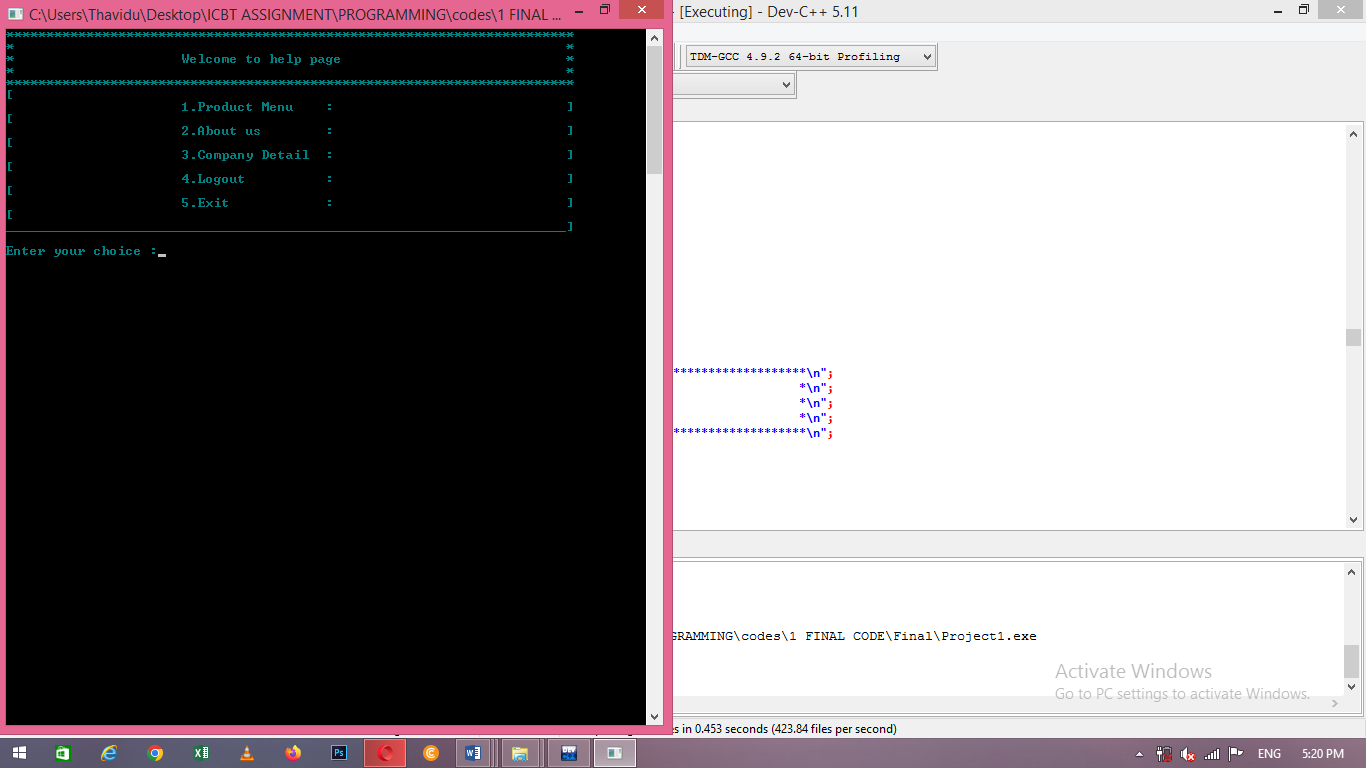
Main Menu

## **Test case 01-**

**Admin login username and password test case**

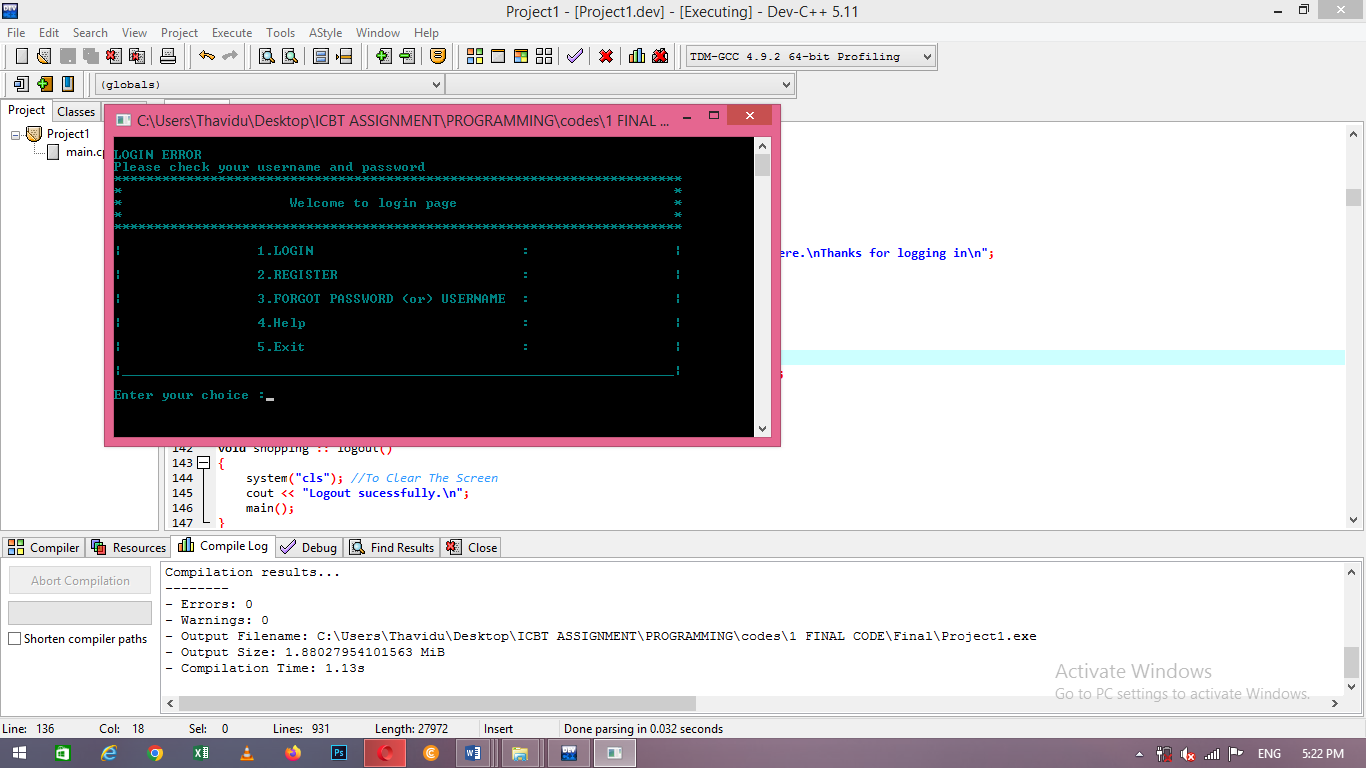
|  |  |  |  |
| --- | --- | --- | --- |
| **Test scenario** | **Input** | **Expected result** | **Actual result** |
| Enter the correct user name and password | Username = admin  Password =admin@123 | Login success | Can login |
| Enter the wrong username and correct password | Username = admin  Password =admin123 | Invalid username or password | Can’t login |
| Enter the correct username and wrong password | Username = admin  Password = user | Invalid username or password | Can’t login |
| Enter the wrong password and wrong username | Username = user  Password = user | Invalid username or password | Can’t login |

### **Login Success**



**Figure 24 - Login Success**

### **Invalid Login**



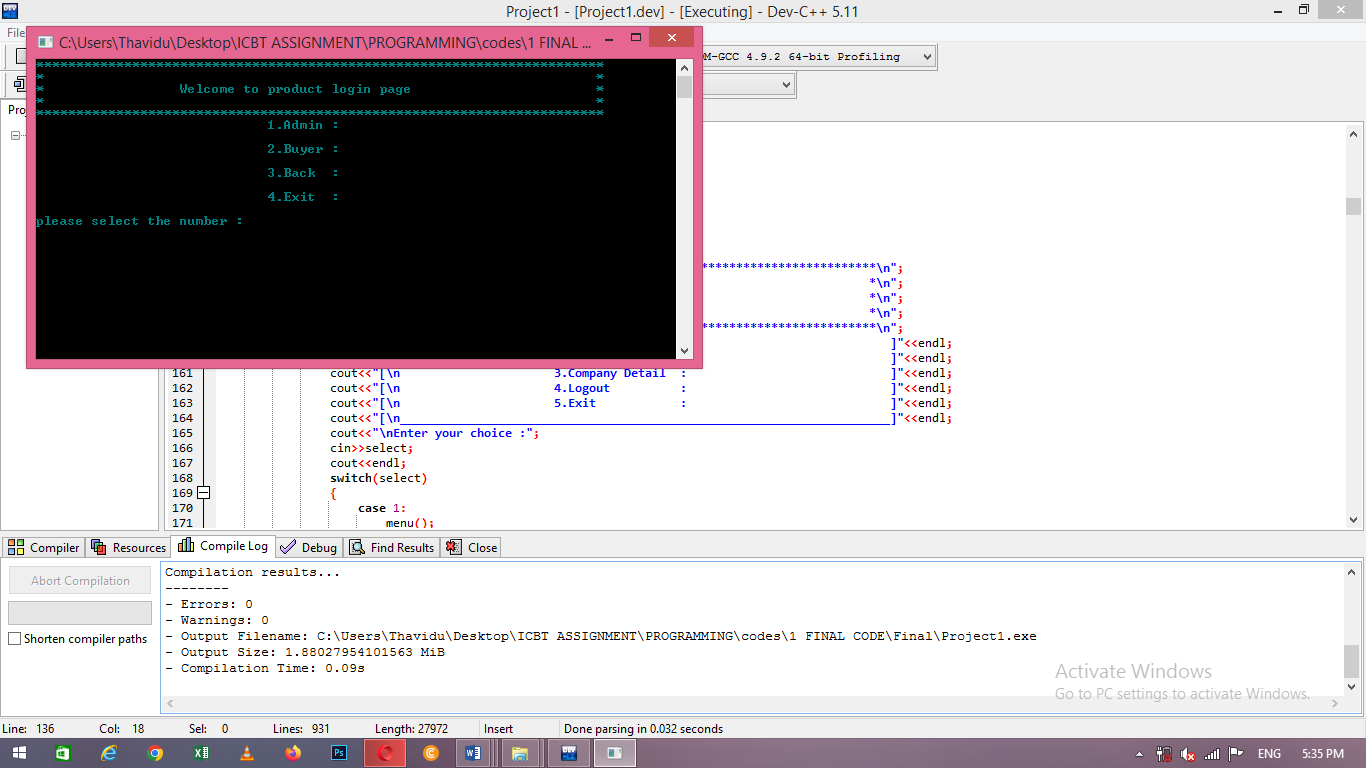
**Figure 25 - Invalid Login**

## **Test case 02-**

**Main menu test case**

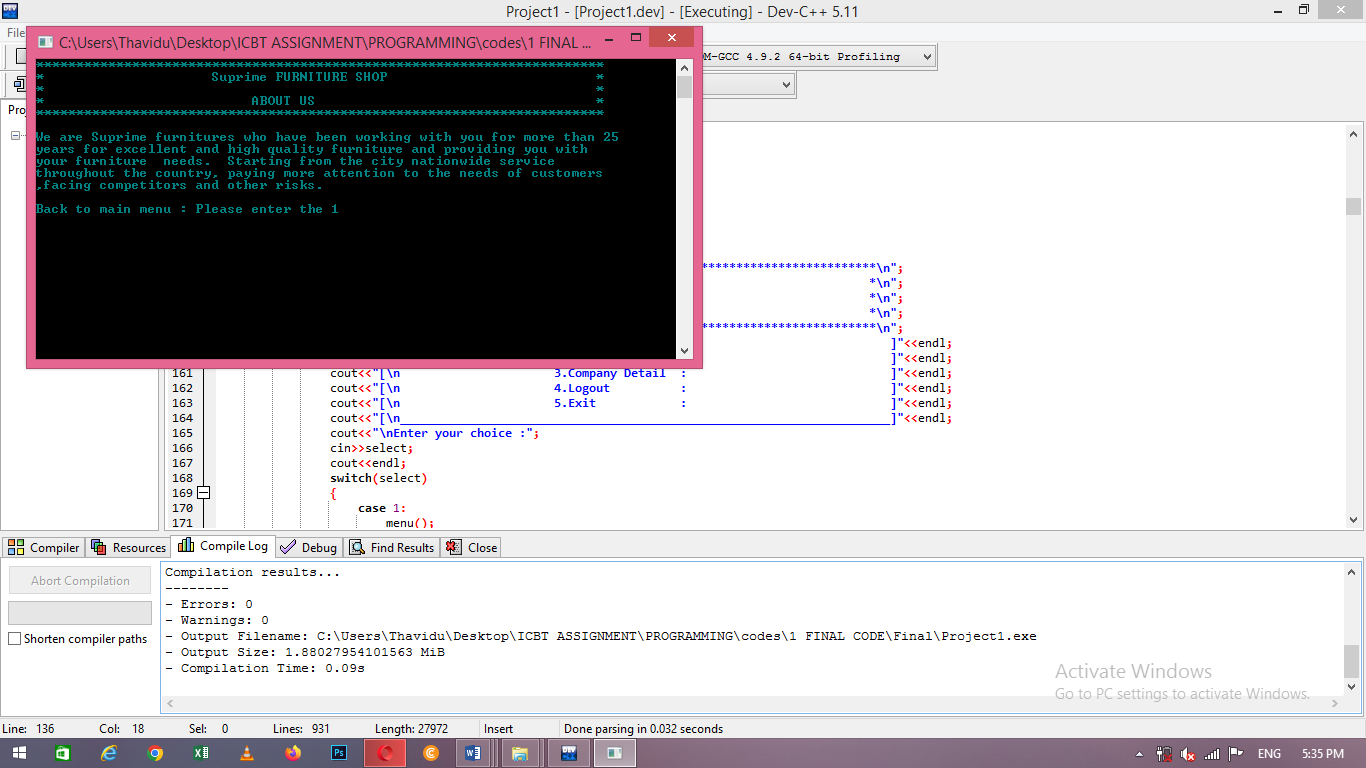
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Step No.** | **Test scenario** | **Test data** | **Expected result** | **Actual result** |
| 01 | Enter number 1 to access product table | Access product table | Logging into the product table | Yes |
| 02 | Enter number 2 to access about us | Access about us | Logging into the about us | Yes |
| 03 | Enter number 3 to access company details | Access company details | Logging into the company details | Yes |
| 04 | Enter number 4 to access logout | Access logout | Logout | Yes |
| 05 | Enter number 5 to access exit | Access exit | exit | Yes |

**Step 01**

****

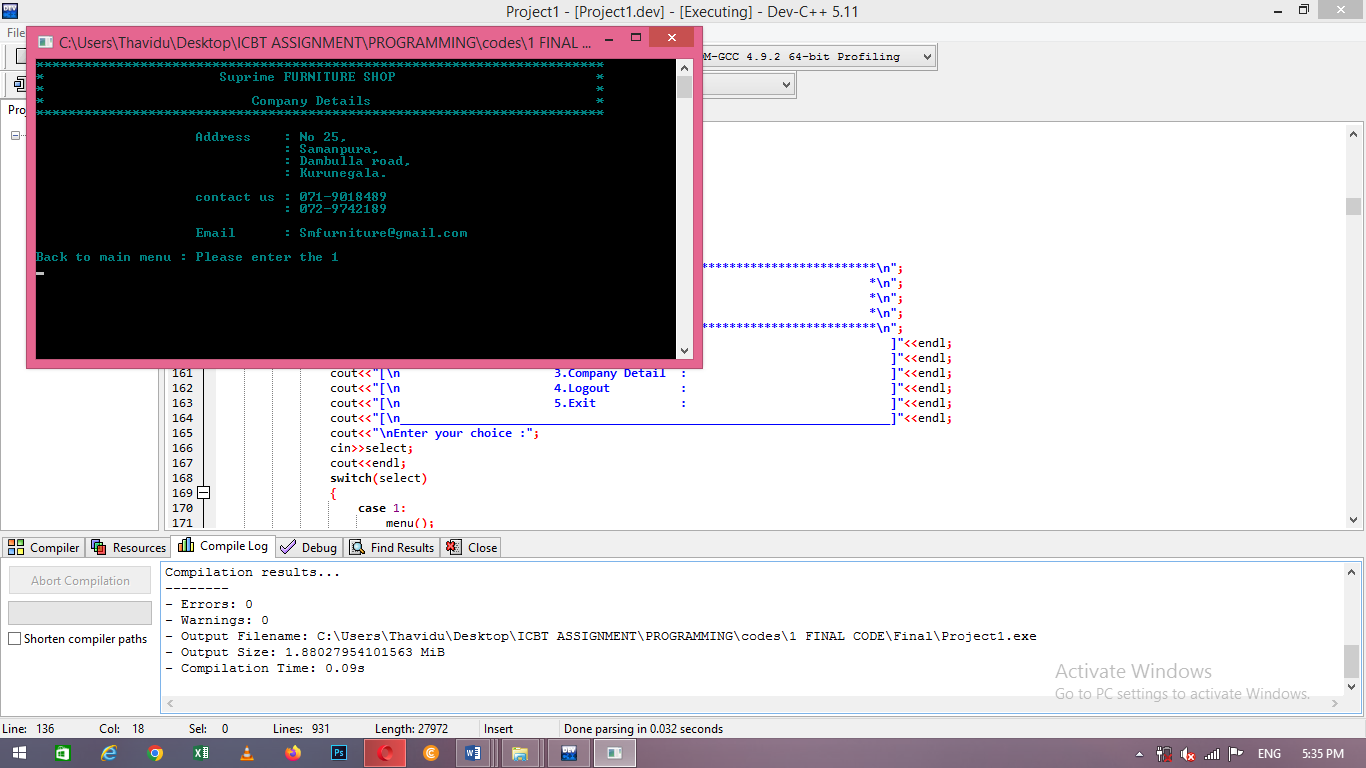
**Figure 26 - Step 01**

**Step 02**

****

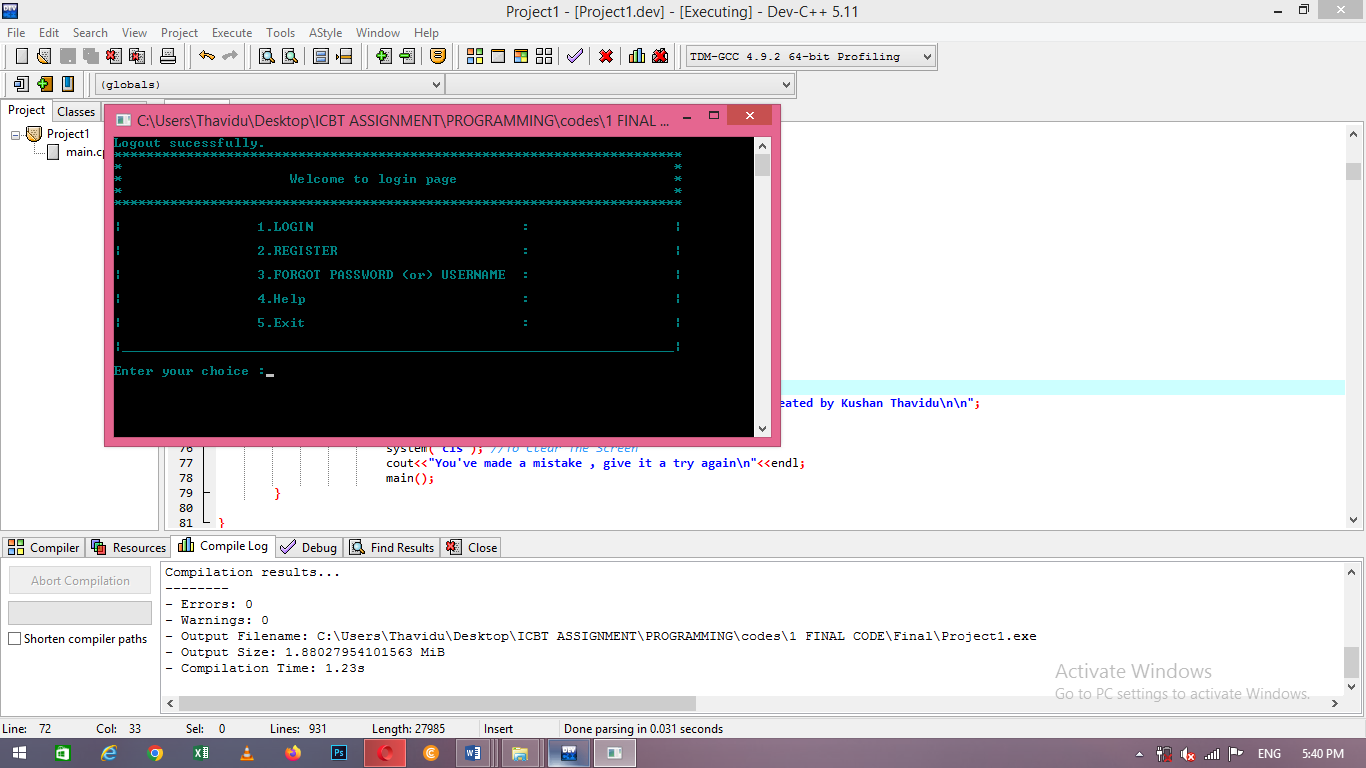
**Figure 27 - Step 02**

**Step 03**

****

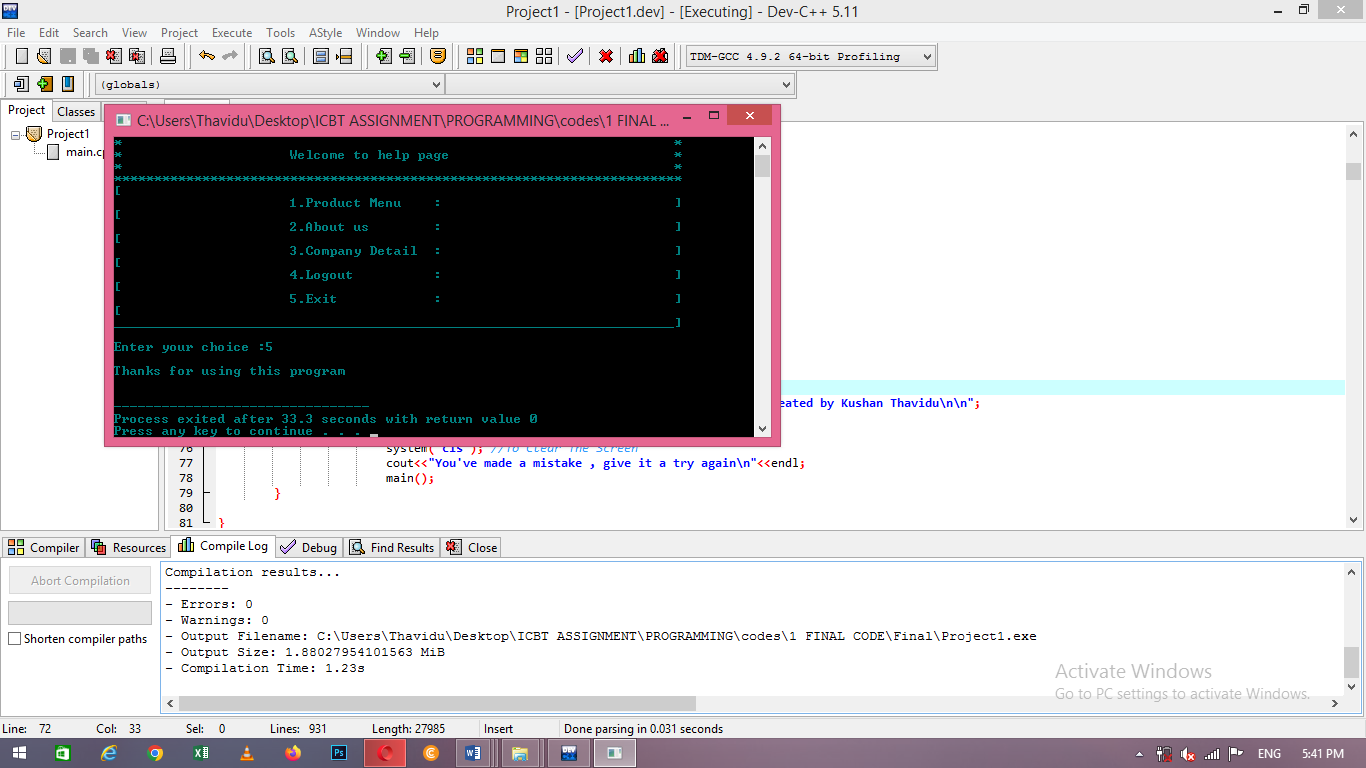
**Figure 28 - Step 03**

**Step 04**

****

**Figure 29 - Step 04**

**Step 05**



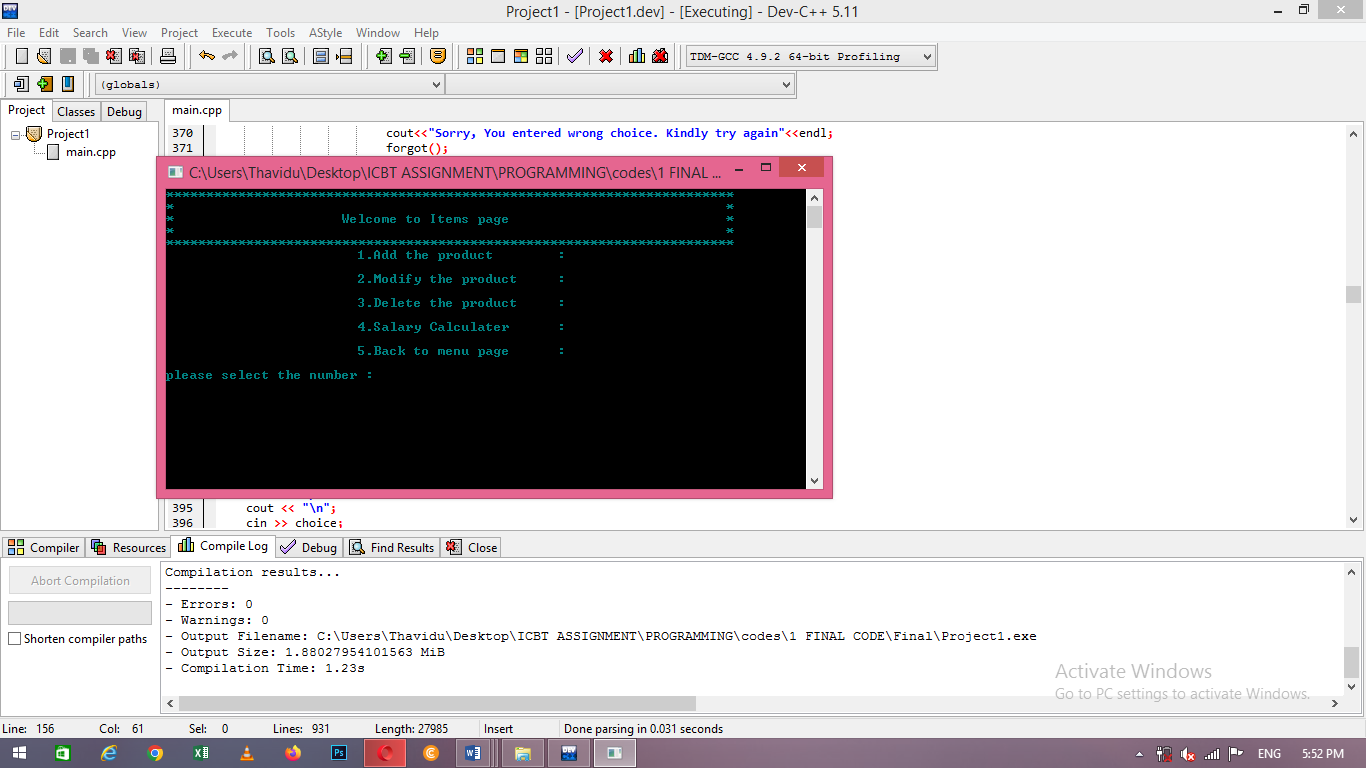
**Figure 30 - Step 05**

## **Test case 03-**

**Product login page test case**

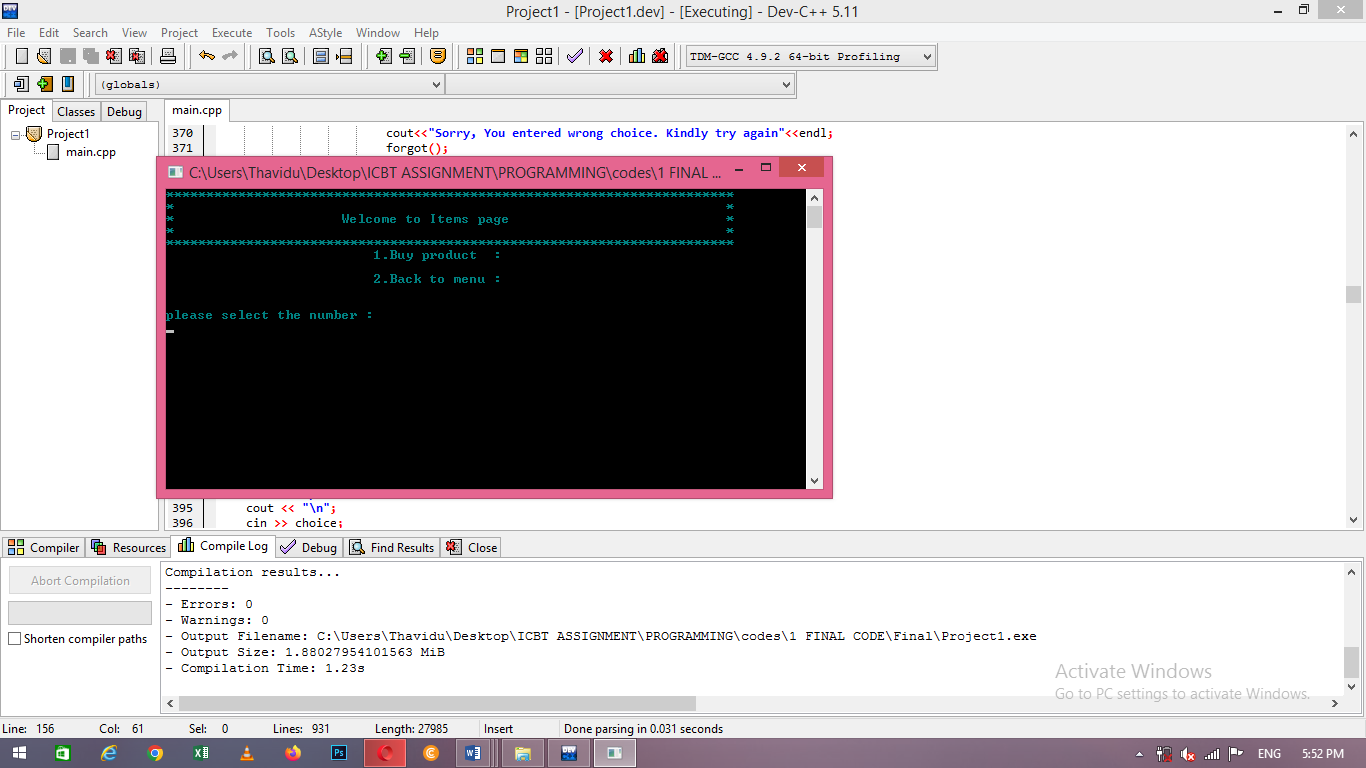
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Step No.** | **Test scenario** | **Test data** | **Expected result** | **Actual result** |
| 01 | Enter number 1 to access admin table | Access admin table | Logging into the admin table | Yes |
| 02 | Enter number 2 to access buyer table | Access buyer table | Logging into the buyer table | Yes |
| 03 | Enter number 3 to access main menu | Access to main menu | Logging into the main menu | Yes |
| 04 | Enter number 4 to exit | Access exit | Exit | Yes |

**Step 01**

****

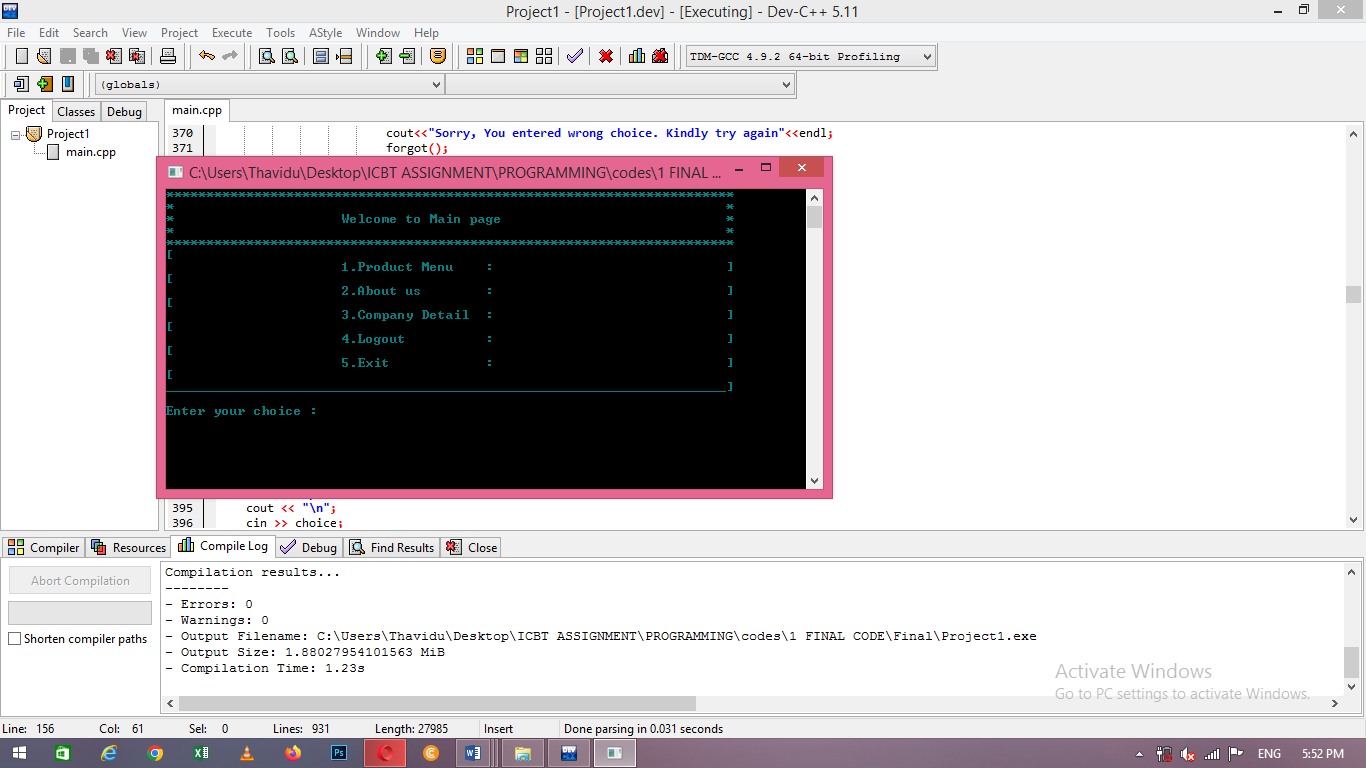
**Figure 31 - Step 01**

**Step 02**

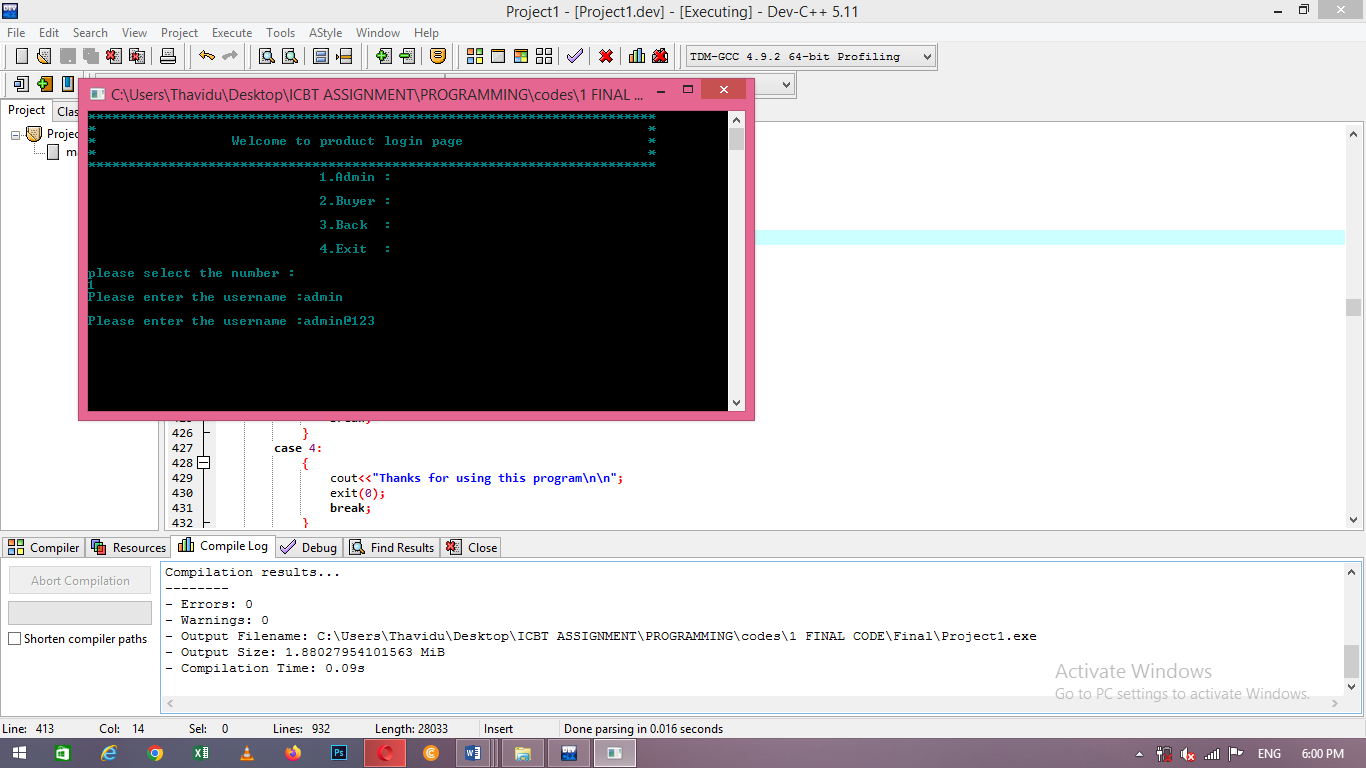
****

**Figure 32 - Step 02**

**Step 03**

****

**Figure 33 - Step 03**

**Step 04**

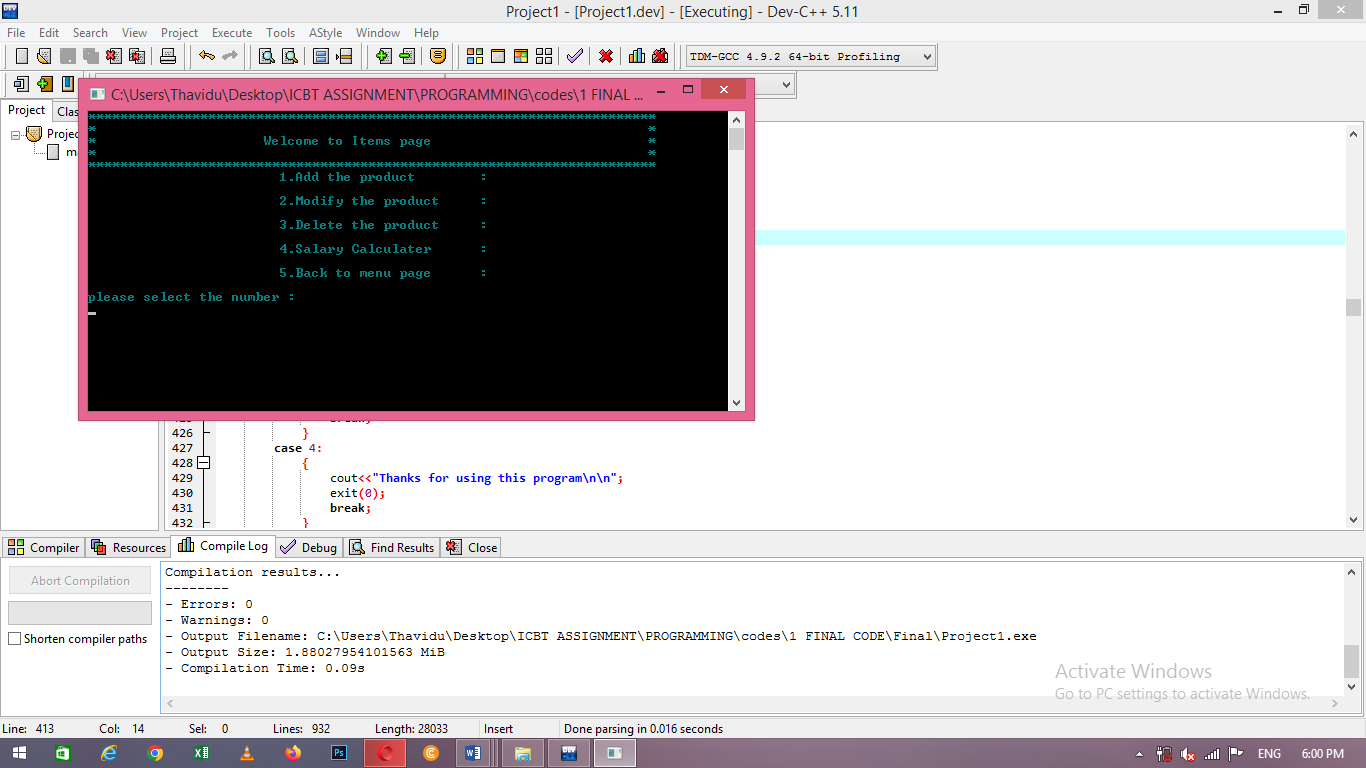
**Figure 34 - Step 04**

## **Test case 04-**

**Admin table login username and password test case**

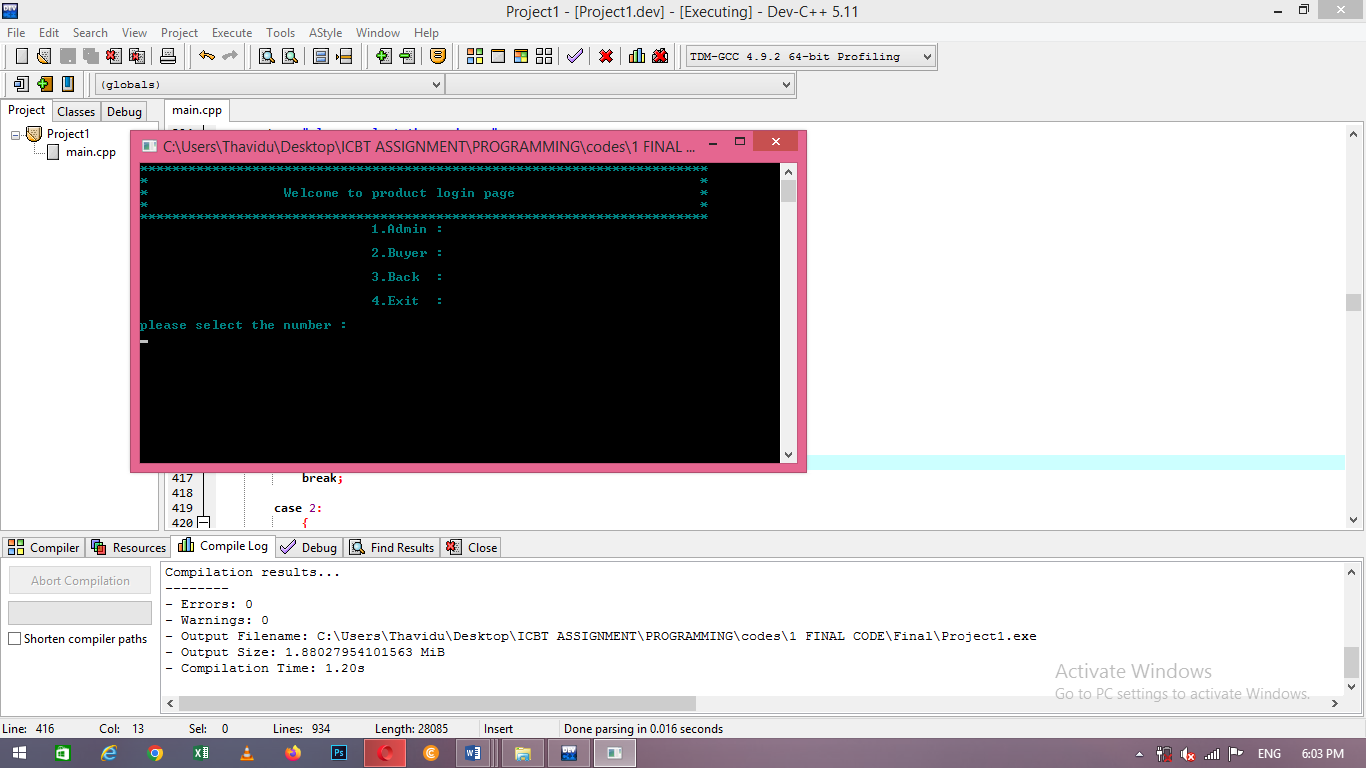
|  |  |  |  |
| --- | --- | --- | --- |
| **Test scenario** | **Input** | **Expected result** | **Actual result** |
| Enter the correct user name and password | Username = admin  Password =admin@123 | Login success | Can login |
| Enter the wrong username and correct password | Username = admin  Password =admin123 | Invalid username or password | Can’t login |
| Enter the correct username and wrong password | Username = admin  Password = user | Invalid username or password | Can’t login |
| Enter the wrong password and wrong username | Username = user  Password = user | Invalid username or password | Can’t login |

### **Login Success**



**Figure 35 - Login Success**

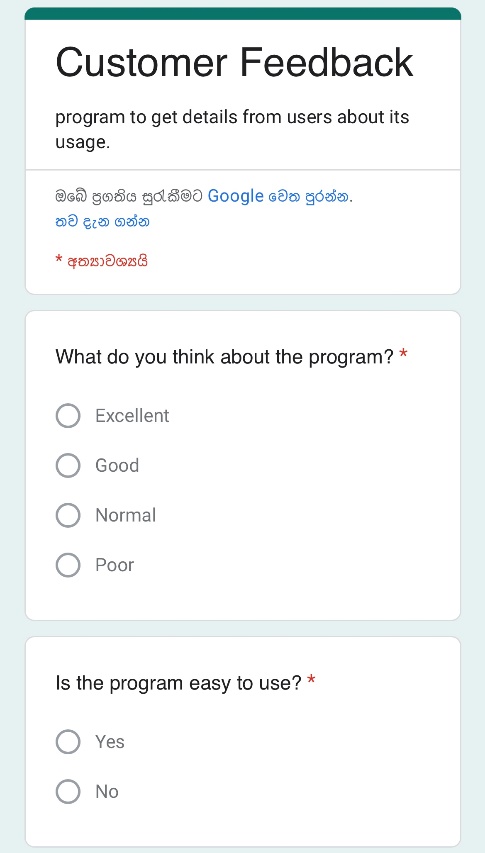
### **Invalid Login**



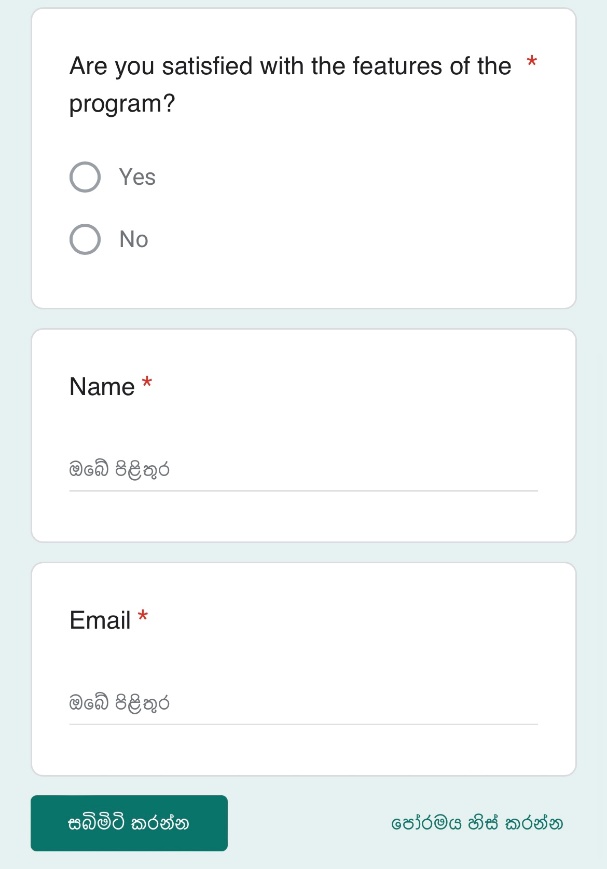
**Figure 36 - Invalid Login**

## **Test run and feedback**

Here the program is sent to different people and their opinions about the program are taken.  The details are given below.  Information about the questions asked from them is also given below.



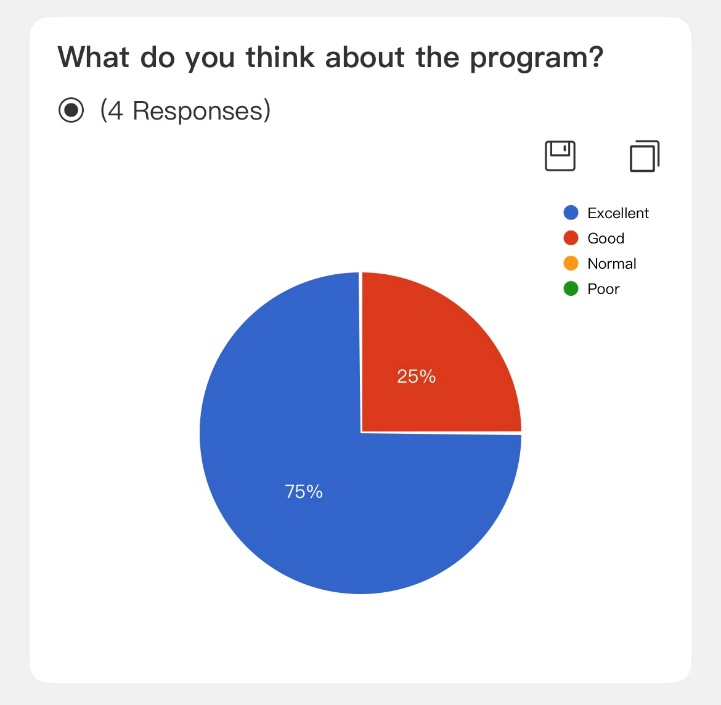
**Figure 37 - Customer feedback form**



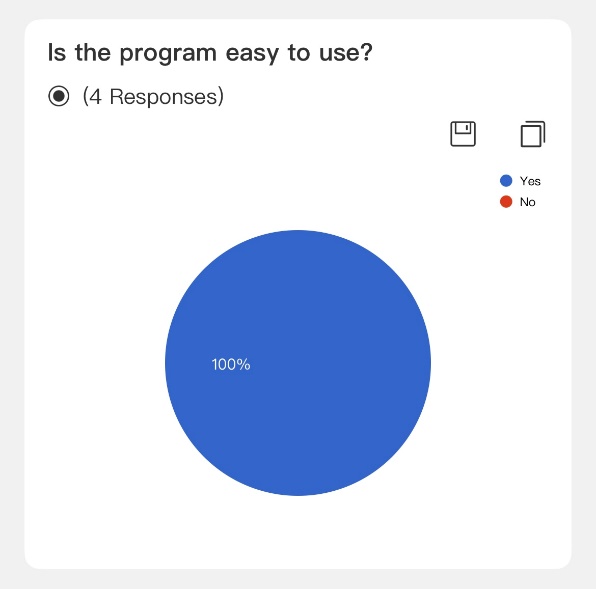
**Figure 38 - Customer feedback form**

## **Customer’s feedback**

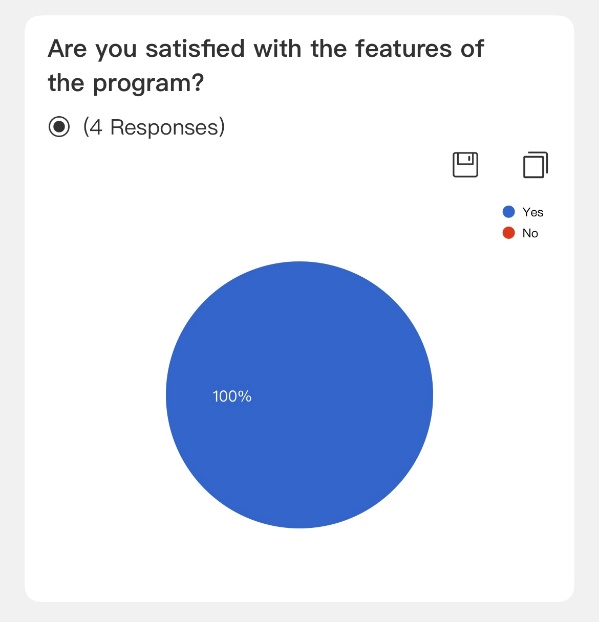
Shown here is a summary of the comments made by people who have used the program.  In it, they have commented on how the program works and what it contains.



**Figure 39 - Customer’s feedback**



**Figure 40 - Customer’s feedback**



**Figure 41 - Customer’s feedback**

## **Testing conclusion**

Here we initially tested the program in various ways.  There we were able to identify some bugs.  Some bugs have been fixed and some bug fixes are being sought.  But overall this is built to be usable.  Here the data collected from the users helped a lot in this.

## **Future recommendation**

We can see that the program is working very well.  New features to come by adding many, it will be possible to save time and convenience of users.  Some special features have already been added for it.  It will facilitate the work of users and administrator.